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Investigation of the Function of Catalytic Factors
on Thermal Cracking of Methane, by N. I. Kobozev,
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6p. 3 refs.

Order from OTS or SLA \$1.10

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Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
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1943, v. 39, p. 261-264.

DESCRIPTORS: *Methanes, Decomposition, Acetylenes,
Synthesis, Cooling.

Data are reported supporting the contention that crack-
ing of methane to acetylene does not require quenching
and that quenching is, as a rule, even harmful to this
process. Substitution of air cooling for water cooling
was without influence on the total yield of unsaturates,
but changed the ethylene-acetylene ratio in favor of the
latter. (Author)

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DESCRIPTORS: *Methanes, Hydrocarbons, Decomposi-
tion, Hydrogenation, *Acetylenes, Synthesis.

A mathematical discussion of high temperature crack-
ing of methane to acetylene and experimental data are
reported pertaining to cracking of a mixture containing
71% methane under atmospheric pressure. The result-
ing gas contained about 7% acetylene and consumed
about 2.2 kw-hr per liter gas charged to the cracking
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Office of Technical Services

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DESCRIPTORS: *Methanes, Hydrocarbons, Decomposi-
tion, Ethanes, Dehydrogenation, *Acetylenes,
Ethylenes, Synthesis.

Experimental conditions reported by various authors to
be required for obtaining the highest yields of un-
saturated hydrocarbons, especially acetylene, in
cracking of methane in mixture with ethane are tabu-
lated. A discussion of these data leads the authors to
the conclusion that the cracking of methane is induced
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DESCRIPTORS: *Methanes, Hydrocarbons, Decomposi-
tion, Heat of reaction, *Acetylenes, *Ethylenes,
Synthesis.

Correlation of data on cracking of methane obtained by
the authors and reported by other workers in the field
revealed the pronounced acceleration of the process
when the total and partial pressure of methane are re-
duced or methane is diluted. Among the individual steps
involved in the total process only those are favored
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Mathematical Simulation of Operation of a Section
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Trans. from Sovetskaya Aviatziya (USSR) 1959,
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15 July 59 [3]p.

DESCRIPTORS: *Aircraft; Ice, Airports, Aircraft
cabins, *Air conditioning; equipment.

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ditioning see Technical Translations 2: 569-570, 1959.

(Engineering--Aeronautical, TT, v. 6, no. 4)

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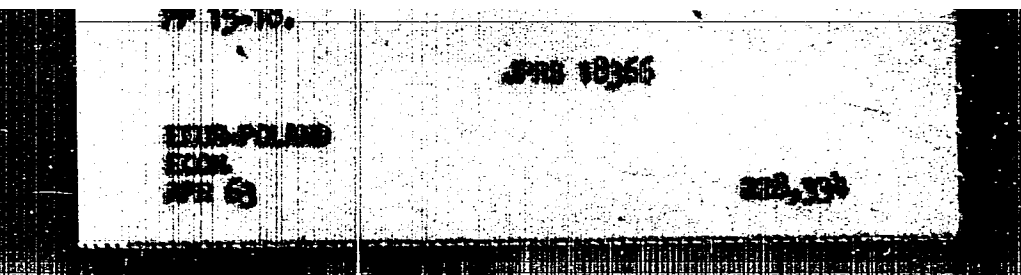
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